

Y	400																
во	BORING LOG PROJECT METCAL								DJECT TCALF ENERGY CENTER					JOB NO. SHEET N 24193-100 1		F 2	HOLE NO. B-105
 								ed in field to NW corner of switchyard)						ANGLE FROM H	ORIZ.	BEARING	
BEGUN COMPLETED DRILLER 4/25/1999 4/25/1999 TREATWELL & ROLLO (P							ROLLO (F	DRILL MAKE AND MOI					HOLE SIZE 4 3\4	OVERBURDEN 70.0	l	ROCK	TOTAL DEPTH 70.0
CORE R	ECOVER'	Y		CORE NON		3					SAMPLES 15	EL. TOP OF CASING	GROUND EL. 251.0	DEPTH/EL. OF G	TW	DEPTH/EL. TO	P OF ROCK
	HAMMEI			1						T IN H	OLE: DIA./L	ENGTH		LOGGED BY:		_1	
14	0 #\30	INCHE	S T	DEN	IETP AT	TION		NON	NONE KR BELL						NOTES ON WA	ATER I EVEL	
				PENETRATION BLOWS								DESCRIPTION AND CLASSIFICATION				WATER RETURN CHARACTER OF DRILLING	
SAMPLE TYPE AND DIAMETER	SAMPLE ADVANCE LENGTH CORE RUN	SAMPLE RECOVERY	SAMPLE BLOWS 'N' PERCENT CORE RECOVERY	1ST 6 INCHED	2ND 6 INCHES	3RD 6 INCHES	ELEVATION	DEРТН	GRAPHIC LOG	SAMPLE							
SS	18"	10"	13	6	6	7				1	Dark b	rown, stiff, SILT				6" auger	to 5.0'
		ļ.,	<u> </u>	-	<u> </u>				-	E							
SS	18"	4"	7	2	3	4		5		2	Dark b	rown, medium stif	t, SILT, sor	me clay			
SS	18"	14"	22	6	9	13		<u> </u>		3	Dark b	rown, very stiff, SI	LT, some o	clay		Wash bo	ring
							244.0									below 5'	
SS	18"	18"	8	3	3	5		10		4	Brown	and gray mottled,	, medium s	tiff, silty CLA	Υ		
SS	18"	18"	9	3	4	5		10	-	5	Brown	and gray mottled,	medium s	tiff_sitly CLA	Υ		
						Ĺ						grad, me an	,	,,	-		
																140-240	psi
ST	30"	30"						45	-	6	Brown	and gray mottled,	silty CLAY	•		push pres	
SS	18"	18"	11	3	5	6		15		7	Brown	and gray mottled,	, stiff, silty C	CLAY		Torvane=	: 0.75 TSF
																140-200	nei
ST	30"	30"								8	Brown	and gray mottled,	silty CLAY	,		push pres	
								20									0.65 TSF
SS	18"	18"	9	2	4	5				9	Brown	and gray mottled,	, medium s	tiff, silty CLA	Y		
SS	18"	18"	7	3	3	4		25		10	Brown	and gray mottled,	, soft, silty (CLAY		W.O.H. fo	or 3"
			1														
СТ	20"	20"			-					14	Dre	and arove stilled	oith Ol AN	troop and it	oh.	160-210	
ST	30"	30"	1					30		17		and gray mottled, sand seams	, silly CLAY	, trace reddi	511	push pres	ssure : 0.50 TSF
SS	18"	18"	12	3	5	7		55		12		and gray mottled,	, stiff, silty C	CLAY		. 51 (4110=	00 .01
												ey SILT	, ,				
								25									
SS = SP	LIT SPOO	N: ST = 9	HELBY TI	BE: MCS	S = MOI	DIFIFD	CALF. SAMP	35 SITE		<u> </u>	<u> </u>					HOLE NO.	
	D = DENNISON ; P = PITCHER; O = OTHER							SWITCHYARD						B-105			



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BORING LOG											PROJECT METCALF ENERGY CENTER					JOB NO. SHEET NO. 24193-100 2 OF		2	HOLE NO. B-105	
SITE COORDINATES (Relocated									(Relocated	d in field to NW corner of switchyard)					1=:::::	ANGLE FROM H		BEARING	1	
SWITCHYARD Approximate N 1,905,493									,905,493	E 6,198,629					1	90°			1	
EGUN COMPLETED DRILLER /25/1999 4/25/1999 TREATWELL & ROLLO (P							ROLLO (P					FAILING 1500	4 3\4	OVERBURDEN 70.0		ROCK	TOTAL DEPTH 70.0			
CORE RECOVERY CORE BOXES NONE										SAMPLES EL.				EL. TOP OF CASING	L. TOP OF CASING GROUND EL. 251.0		DEPTH/EL. OF GWT		DEPTH/EL. TOP OF ROCK	
AMPLE	MPLE HAMMER WEIGHT\FALL CAS											CASING LEFT IN HOLE: DIA/LENGTH LOGGED BY:								
14												NONE KR BELL								
					P	PENETRATION BLOWS							DESCRIPTION	ESCRIPTION AND CLASSIFICATION			NOTES ON WATER LEVEL WATER RETURN CHARACTER OF DRILLING			
SAMPLE TYPE AND DIAMETER	SAMPLE ADVANCE	LENGTH CORE RUN	SORE RECOVERY	SAMPLE BLOWS "N"	PERCENT CORE RECOVERY		2ND 6 INCHES	3RD 6 INCHES	ELEVATION	ЭЕРТН	SRAPHIC LOG	SAMPLE								
SS	18" 18"		12	3	3 5	5	7			Ŭ	_	Brown	, stiff, silty CLAY,	trace fine r	ounded grav	rel .	Color cha	ange at		
														<u> </u>				top of sa	-	
										40										
SS	18" 18" 15		3	;	6	9				14	Brown	, stiff, silty CLAY,	trace fine r	ounded grav	rel					
										45										
SS	18"	1	8"	41	9	1	16	25				15	Brown	and gray mottled	l, hard, silty	CLAY, trace	fine			
		-											rounde	ed gravel						
SS	18"	1	8"	24	. 8	. 1	10	14		50		16	Brown	, very stiff, silty CI	AY trace t	fine rounded				
							. •						gravel	, 10.9 0, 0						
									198.0											
S	17"	1	0"	71	1	1 2	21	50		55										
		Ť	-	11		ľ		5"				17	Brown	, hard, silty CLAY	, some fine	angular gra	vel, some			
														of fine to coarse						
									193.0				fragme	ents (Residual so	il)					
													(Very I	hard drilling below	v 58', all cut	tings are roc	k	Driller ch	anged	
										60			drilling	rate 8 to 9 minut	es a foot, a	ppeared to b	reak	to rock ro	oller bit	
	<u> </u>	-				-							out of	rock at 61.8', tool	SS at that	depth.)				
	l	+			\perp	+	4					-	<u> </u>							
SS	4"	4	"	100								18	Fractu	red rock in clay m	natrix					
		+		4"	4	-				er.			(Cant)	auad deilliaa bata		ith root !!-	r hit			
		+			+	+	-			65				nued drilling below rilling to 70' at 7 to			ı DIL,			
		-			+								naid d	ming to 70 at 7 to	o o minutes	a iool)				
		-			+								Botton	n of hole at 70.0 f	eet. Hole o	routed to				
		T			\top									e upon completio						
_		╧			╧					70								<u> </u>		
S = SP	LIT SPO	ON: S	ST = SH	HELBY	TUBE; M	CS =	MOD	IFIED	CALF. SAMP	SITE						<u> </u>		HOLE NO.		
= DEN	INISON ;	P = F	PITCHE	R; 0 =	OTHER					SWITCHYARD							B-105			
_	DENNISON; P = PITCHER; O = OTHER																			